| Inde | x of | <b>Claims</b> | ; |
|------|------|---------------|---|
|      |      |               |   |

Application No.

10/686,922

Examiner

Laura E. Edwards

Applicant(s)

HAAS ET AL.

Art Unit

1734

| √ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| Α | Appeal   |
|---|----------|
| Ö | Objected |

| CI          | aim             | Date   |                |          |          |              | Claim Date |          |   |          |          |          |  |          |          | $\neg$    | Г        | Cli      | aim      | Date     |           |          |          |            |          |          |                 |          |               |              |
|-------------|-----------------|--|----------------|----------|----------|--------------|------------|----------|---|----------|----------|----------|--|----------|----------|-----------|----------|----------|----------|----------|-----------|----------|----------|------------|----------|----------|-----------------|----------|---------------|--------------|
|             |                 | <u>_</u>                                     | 1              | П        | Т        | T            | Ť          | T        | Г                                       |          | <u> </u> |          | <del>                                     </del> |          |          | T         |          |          |          |          | -         | -        |          |            | $\vdash$ | Γ        | Ė               |          |               | Ť            |
| Final       | Original        | 8  |                |          |          |              |            |          |   |          | Final    | Original |  |          |          |           |          |          |          |          |           |          | Final    | Original   |          |          |                 |          |               |              |
|             | 100             | -  | <u> </u>       | +        | ╁        | ╀            | -          | -        | ╁                                       | $\vdash$ | -        | E4       | -  | Н        |          |           |          |          |          |          |           | -        |          |            | -        | $\vdash$ | $\vdash$        |          | $\vdash$      | ⊢            |
| $\vdash$    | 1/2             | <del> </del>                                 | -              | +        | ┼        | ╀            | ┼          | -        | ╆                                       |          |          | 51<br>52 | ┝  |          |          |           |          |          |          |          | _         | -        |          | 101<br>102 | -        | ŀ        | ├               |          | ⊢             | ⊢            |
| $\vdash$    | 3               | ┢  | ╁              | ┼        | $\vdash$ | ╁╌           | ┼          | +        | ╁                                       | $\vdash$ | -        | 53       | <u> </u>   | Н        | _        |           |          |          | _        |          |           | -        |          | 103        | 74       | ŀ        | ┢               | $\vdash$ |               | ⊢            |
| $\vdash$    | 1               | $\vdash$                                     | ╁              | ╁        | H        | ╁            | $\vdash$   | -        | ╀                                       | -        |          | 54       | -  | Н        | _        |           |          | $\dashv$ |          |          | $\dashv$  | H        | -        | 103        |          |          |                 |          | <u> </u>      | ⊢            |
| 1           | (5)             | =  | 1              | 1        | 1        | ╁╌           | ╁          | -        | 1                                       | Н        |          | 55       |  | H        | -        |           |          | -        | _        |          | $\dashv$  | H        |          | 105        | -        | $\vdash$ | -               |          | <del> </del>  | ╁╴           |
|             | (3)             | -  | 1              | -        | ┼        | Η.           | +          | ╁        | ╁                                       | -        |          | 56       | ├  | H        |          | -         |          |          |          |          | -         | $\vdash$ |          | 106        | $\vdash$ | ┢        |                 | H        | <u> </u>      | ⊢            |
|             | 1               | -  | ⊢              | ╁╌       | -        | ╁            | +-         | $\vdash$ | 1-                                      | Н        | -        | 57       | $\vdash$   | $\vdash$ | -        |           |          |          | •        | $\vdash$ | $\dashv$  | -        |          | 107        |          | ╁        | ╁               | -        | -             | $\vdash$     |
| <del></del> | В               | $\vdash$                                     | t              | $\vdash$ | 1        | H            | $\vdash$   | ╁╌       | 1                                       | Н        | -        | . 58     | <del>                                     </del> |          | _        | -         |          |          | $\neg$   |          | $\dashv$  | $\vdash$ |          | 108        | $\vdash$ |          | H               |          |               | ┢            |
|             | 1               |  | <u> </u>       | 1        |          | ╁╌           | $\vdash$   | T        |   |          | -        | 59       |  |          | $\neg$   |           |          |          | -1       |          | -1        | <br> -   |          | 109        | -        | <b>-</b> | ╁               |          |               | H            |
|             | 10              |  | t              | T        | 1        | $\vdash$     | t          | t        | t                                       | Н        |          | 60       | t  |          |          |           |          | $\neg$   | $\neg$   |          | $\exists$ |          |          | 110        | <u> </u> | <u> </u> |                 |          | $\vdash$      | T            |
| 2           | 10              | =  | T              |          |          | T            | 1          | T        | Ė                                       | П        |          | 61       |  |          | $\neg$   | $\exists$ |          |          | -        |          | $\dashv$  |          |          | 111        | Т        | t        | Ė               |          |               | T            |
| 3           | 12              | 11 11  |                | T        | Т        | T            | $\vdash$   | 1        |   | $\dashv$ |          | 62       | П  | П        |          | $\neg$    |          |          | $\neg$   | $\Box$   | $\dashv$  |          |          | 112        |          | t        |                 |          | _             |              |
|             | 120             | ŕ  |                | t        |          | T            | T          | T        | $\vdash$                                | $\sqcap$ |          | 63       | $I^-$  | П        |          |           | $\dashv$ | $\Box$   |          |          | $\dashv$  |          |          | 113        | ⇈        |          |                 |          |               | <u> </u>     |
| 4           | (TS)            | 5  | Г              | 1        | $\vdash$ | T            |            |          |   | П        |          | 64       |  | П        |          |           | $\neg$   |          |          |          |           |          |          | 114        |          |          |                 |          | Г             | T            |
| 5           | (15)            |  |                |          |          |              | 1.         |          |   |          |          | 65       |  |          |          |           |          |          |          |          |           |          |          | 115        |          | Г        |                 |          |               | T            |
| 6           | 16              |  | 1              |          |          |              |            |          | 1                                       |          |          | 66       |  | П        |          |           |          |          |          |          |           |          |          | 116        |          |          |                 |          | $\overline{}$ | Г            |
| 7           | 17              | П  |                |          |          |              |            |          | Ī.,                                     |          |          | 67       |  |          |          |           |          |          |          |          |           |          |          | 117        |          |          |                 |          |               |              |
| 3           | 18              | П  | П              |          | Γ        |              |            |          |   |          |          | 68       |  |          |          |           |          |          | _        |          |           |          |          | 118        |          |          |                 |          |               | Г            |
| 9           | (19)            | П  |                |          |          |              |            |          |   |          |          | 69       |  |          |          |           |          |          |          |          |           |          |          | 119        | Γ        |          |                 |          | Г             | Γ            |
| 10          | 20              |  |                |          |          |              | Ī          |          |   |          |          | 70       |  |          |          |           |          |          |          |          | $\Box$    |          |          | 120        |          |          |                 |          |               |              |
| Ш           | 21              |  |                |          |          |              |            |          | -                                       |          |          | 71       |  |          |          |           |          |          |          |          |           |          |          | 121        |          |          |                 |          |               |              |
| 12          | <b>22</b><br>23 |  |                |          |          |              |            |          |   |          |          | 72       |  |          |          |           |          |          |          |          |           |          |          | 122        |          |          |                 |          |               |              |
| 13          | 23              |  |                | L        |          |              |            |          |   |          |          | 73       |  |          |          |           |          |          |          |          |           |          |          | 123        |          |          |                 |          |               |              |
| 14          | 24              |  |                | L.       | L.       | _            |            |          |   |          |          | 74       |  |          |          |           |          |          |          |          |           |          |          | 124        |          |          |                 |          |               |              |
| 15          | .25             | 2  |                | <u> </u> |          |              |            |          |   |          |          | 75       | Ш  |          |          |           | _        |          |          |          |           | L        | - ;-     | 125        |          |          |                 |          |               |              |
|             | 26              | _  | _              | <u> </u> |          |              |            |          |   | _        |          | 76       |  |          |          |           | _        |          |          |          |           | L        |          | 126        | <u> </u> |          |                 |          |               |              |
|             | 27              | _  | _              | L        | _        | _            | L          | L        | _                                       | _        |          | 77       | Ш  |          | _        | _         | _        | _        |          | _        | _         | L        |          | 127        | <u> </u> |          |                 |          |               | _            |
|             | 28              |  |                | L        | _        |              |            |          | L                                       |          |          | 78       |  |          |          |           |          |          | _        |          |           | L        | _        | 128        |          |          |                 |          |               |              |
|             | 29              | _  | _              |          | _        |              | _          |          | _                                       |          |          | 79       |  | $\sqcup$ | _        |           |          | _        |          |          | _         |          |          | 129        |          |          |                 | _        |               | _            |
|             | 30              | <u>.                                    </u> | _              |          | <u> </u> |              | _          | Ŀ        | ļ                                       |          |          | 80       |  |          | _        | _         | _        | _        |          |          | 4         | $\perp$  |          | 130        |          | _        |                 | $\dashv$ |               | _            |
| <u> </u>    | 31              | _  | _              | _        | L        | <u> </u>     | <u> </u>   | <u> </u> | ļ                                       |          |          | 81       | Ш  |          | _        | _         | _        | _        |          | _4       | _         | $\vdash$ | _        | 131        |          |          |                 | _        |               | L            |
| -           | 32              | -  | _              |          | _        | _            | _          | ├_       | _                                       |          |          | 82       |  | -        |          |           | _        | _        | _        |          |           | <u> </u> |          | 132        |          | <u> </u> | _               | _        |               | _            |
| -           | 33              |  |                | -        | -        | ├-           | -          | -        | -                                       | $\dashv$ |          | 83       | Н  | $\vdash$ |          |           | [        |          | $\dashv$ |          |           | $\vdash$ |          | 133        | <u> </u> | _        | Ш               | $\dashv$ |               | <u> </u>     |
| -           | 34<br>35        |  |                |          | _        | $\vdash$     | $\vdash$   | -        | -                                       | $\dashv$ | -        | 84       | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ | $\dashv$  |          | _        | -        | $\dashv$ | 4         | Ŀ        |          | 134        |          | H        | $\square$       | 4        | $\dashv$      | $\vdash$     |
|             | 36              | <u> </u>                                     | $\vdash$       | $\vdash$ |          | <del> </del> | <u> </u>   | -        | -                                       | $\dashv$ |          | 85       | $\vdash$   | -        | $\dashv$ | $\dashv$  | -        | -        | $\dashv$ | -        | $\dashv$  | -        |          | 135        | <b>—</b> | H        | $\vdash \dashv$ |          |               | -            |
| -           | 37              |  | <del> </del> — | -        | -        | -            | $\vdash$   |          | -                                       | $\dashv$ | -        | 86       | $\vdash \vdash$                                  |          |          | $\dashv$  |          | -        |          |          | -         | -        |          | 136        |          | Н        | $\vdash$        |          |               | $\vdash$     |
| <u> </u>    | 38              |  | 1.             |          |          | <u> </u>     | H          | $\vdash$ | -                                       | $\dashv$ | -        | 87       | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$  | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\vdash$ |          | 137        |          | Н        | $\vdash \vdash$ | $\dashv$ | $\dashv$      | ⊣            |
| -           | 39              | -  | -              | -        | $\vdash$ | $\vdash$     | $\vdash$   | -        |   | $\dashv$ | $\vdash$ | 88<br>89 | H  | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$  | $\vdash$ |          | 138        | $\vdash$ | Н        | $\vdash \vdash$ |          |               |              |
| <u> </u>    | 40              |  | -              |          | $\vdash$ |              | $\vdash$   | -        | -                                       | $\dashv$ | $\vdash$ | 90       |  | $\dashv$ | -+       | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$  | $\vdash$ |          | 139<br>140 | <u> </u> | H        | $\vdash$        |          | -             | <del> </del> |
|             | 41              |  | $\vdash$       | $\vdash$ |          | <del> </del> | -          | -        | -                                       | -        | ·        | 91       | $\vdash \vdash$                                  | -        |          | $\dashv$  | $\dashv$ | $\dashv$ | -        |          | $\dashv$  | -        | $\dashv$ | 140        | -        | -        | $\vdash \vdash$ | $\dashv$ | -             | <del> </del> |
| $\vdash$    | 42              |  | $\vdash$       | $\vdash$ |          |              | -          | $\vdash$ |   | $\dashv$ | $\vdash$ | 92       | $\vdash$   | -        | $\dashv$ |           | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\vdash$ | $\dashv$ | 142        | <u> </u> | $\vdash$ | $\dashv$        | $\dashv$ | $\dashv$      | <u> </u>     |
| -           | 43              | -  | -              | $\vdash$ |          |              | $\vdash$   | $\vdash$ | H                                       | -        |          | 93       | Н  | $\dashv$ | $\dashv$ |           | $\dashv$ | $\dashv$ | $\dashv$ | -+       | $\dashv$  | -        | $\dashv$ | 143        |          | $\vdash$ | -               | $\dashv$ | _             | <u> </u>     |
| F           | 44              |  | $\vdash$       | H        |          | $\vdash$     |            | -        |   | $\dashv$ | $\vdash$ | 94       | $\vdash$   | $\dashv$ | +        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\vdash$ | $\dashv$ | 144        |          | $\vdash$ |                 |          | $\dashv$      | _            |
|             | 45              |  |                | $\vdash$ |          | $\vdash$     | <u> </u>   |          | Н                                       | $\dashv$ |          | 95       |  | -+       | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$  | -        | -        | 145        |          |          | $\vdash$        | $\dashv$ | -             |              |
|             | 46              |  |                |          |          |              |            |          | Н                                       |          |          | 96       | $\dashv$   | +        | $\dashv$ | -+        | -+       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | -        |          | 146        |          | -        |                 | $\dashv$ | $\dashv$      |              |
|             | 47              | ·  |                | П        |          |              | $\vdash$   |          |   | $\dashv$ |          | 97       |  | $\dashv$ | $\dashv$ | -+        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$  | -        | $\dashv$ | 147        |          | $\vdash$ | $\dashv$        | $\dashv$ | -             | ·-           |
|             | 48              |  | Н              |          |          | _            |            |          | $\vdash$                                |          |          | 98       | $\dashv$   | -+       | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$  | -        | -        | 148        |          |          |                 | $\dashv$ | $\dashv$      |              |
|             | 49              |  |                | -        |          |              |            |          | $\neg$                                  | $\dashv$ |          | 99       | $\dashv$   | $\dashv$ | $\dashv$ |           | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$  | $\vdash$ | $\dashv$ | 149        |          |          | -               | $\dashv$ | -             | _            |
|             | 50              |  | $\Box$         |          |          |              |            |          | $\neg$                                  | $\neg$   |          | 100      | $\dashv$   | -        | $\dashv$ | $\dashv$  | -+       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | -        | +        | 150        | -        |          | $\dashv$        | $\dashv$ | ᅱ             | <u></u>      |
|             |                 |  |                |          | لــــا   |              |            |          | ـــــــــــــــــــــــــــــــــــــــ |          |          | •        |  |          |          |           |          |          | _        | 1_       |           | Ц_       |          | ,50        | - 1      |          |                 |          |               |              |